

(Criteria B practice 1) A game about subtraction

Instructions

Level 1-2

1. Solve the following subtractions

$$381-183=$$

$$632-236=$$

$$732-237=$$

Level 3-4

2. Explore the operations and answers. Then explain your findings using words and a general rule.

Level 5-6

3. Justify that your general rule works for any case.

Level 7-8

4. Write instructions to explain to your parents how to use your finding as a game. Use mathematical terminology and remember to write a logical, concise and complete explanation.

(Criteria B practice 2) Bacteria grown

Instructions

Level 1-2

1. Bacteria grow very fast. If 1 cell will split into 2 cells every day. How many bacteria will be there on day 5 and day 6?

Level 3-4

2. Draw a table as follow and explain the general rule you use to find the answer for question 1.

No. of day (d)	1	2	3	4	5	6	n	10
No. of bacteria (B)	1	2	4	8				

Level 5-6

3. Justify that your general rule works for any case.

Level 7-8

4. Express the relationship of No. of bacteria (B) and number of day (d) in mathematical formula.